**Course-Program Mapping**

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| --- | --- | --- | --- |
| **Date:** | Fall 2019 | **Department:** | Computer Science and Engineering |
| **Course Title:** | Introduction to Computer Studies | **Prepared by:** | Satyaki Das |
| **Course Code:** | CSE 101 | **Checked by:** |  |
| **Course Type:** | MJ, T |  |  |

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| --- | --- | --- | --- | --- | --- |
| **SL No.** | **Course Learning Outcome (ILO)** | **Contribution to** | | | **Assessment Strategy** |
| **Program Learning Outcomes** | **Generic Skills** | **Professional Skills** |
| **1.** | **Describe** the concept and components of computing system along with its benefits. | PLO1(MJ), PLO2(MN) | GS1.1(MJ), GS2.1(MN), GS3.4(MN) | PS1(MJ), PS2(MJ), PS3 (MN) | AS1(MJ), AS5(MJ) |
| **2.** | **Explain** features and benefits of various technological advancements | PLO1(MJ), PLO2 (MJ), PLO3(MJ) | GS1.1(MJ), GS1.2(MJ), GS2.1(MN), GS4.3(MJ), | PS1(MJ), PS10(MJ) | AS1(MJ), AS2(MJ), AS3(MJ) |
| **3.** | **Define** a wide range of practical problems as a computational problem | PLO1(MJ), PLO2 (MJ), PLO3(MJ) | GS1.1(MJ),  GS1.2(MJ),  GS2.2(MN), GS4.1(MN), GS4.3(MJ), GS4.4(MJ) | PS1(MJ), PS10(MJ) | AS2(MJ), AS3(MJ), AS7(MJ) |
| **4.** | **Understand** a real-life problem and **be able** to design and develop systems using pseudocodes and flowcharts. | PLO2 (MJ), PLO3(MN) | GS1.1(MJ),  GS1.2(MJ),  GS2.2(MN), GS4.1(MN), GS4.3(MJ), GS4.4(MJ) | PS1(MJ), PS10(MJ), | AS2(MJ), AS3(MJ), AS7(MJ) |
| **5.** | **Introduce** the fundamental concepts of computer programming | PLO1(MJ), PLO2(MN), PLO11(MJ) | GS1.1(MJ),  GS2.1(MN), GS3.1(MJ), GS4.5(MN) | PS1(MJ), PS10(MN) | AS2(MJ), AS3(MJ), AS7(MJ) |

**Note:** Kindly write the appropriate code on the space allotted. Please indicate if the contribution is major (MJ) or minor (MN). The codes are in the following pages.

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**Program Learning Outcome Mapping**

|  |  |
| --- | --- |
| **Degree** | BSc in Computer Science and Engineering |
| **Program Offering Entity:** | Department of Computer Science and Engineering |

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| **Course Code** | **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **PLO9** | **PLO10** | **PLO11** | **PLO12** |
| CSE 101 | √√ | √√ | √ |  |  |  |  |  |  | √ |  |  |
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**Note:** Put (√√) if the course makes a major contribution, put (√) if the course makes a minor contribution.



Program Learning Outcome Alignment

|  |  |
| --- | --- |
| Degree: | BSc in Computer Science and Engineering |
| Program Offering Entity: | Department of Computer Science and Engineering |

**PLO 3:**

**PLO 2:** CSE101

**PLO 4:**

**PLO 5:**

**PLO 7:**

**PLO 8:**

**PLO 6:**

**PLO 1:** CSE101

**PLO 12:**

**PLO 10:** CSE101

**PLO 11:**

**PLO 9:**

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**Generic Skills Map**

|  |  |
| --- | --- |
| **Degree** | **BSc in Computer Science and Engineering** |
| **Program Offering Entity** | **Department of Computer Science and Engineering** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Courses** | **GS1** | | **GS2** | | | **GS3** | | | | | | | **GS4** | | | | | |
| **1** | **2** | **1** | **2** | **3** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **1** | **2** | **3** | **4** | **5** | **6** |
| **CSE 101** | √√ | √√ | √ | √ |  |  |  |  | √ |  |  |  | √ |  | √√ | √√ | √ |  |
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**Note:**  Put (√√) if the course makes a major contribution, put (√) if the course makes a minor contribution.

**Generic Skills Alignment**

|  |  |
| --- | --- |
| **Degree** | **BSc in Computer Science and Engineering** |
| **Program Offering Entity** | **Department of Computer Science and Engineering** |

**Core Competencies for Graduates**

**Newly Admitted Students in Program**

**Internship/Practicum**

**Competent Graduates**

**Quality/ Accreditation/Regulatory Agencies**

**Feedback from Alumni/Employer of Graduates**

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**GS 4:** CSE 101

**GS 3:**

**GS 2:**

**GS 1:** CSE 101

**Note:** Plot only if the course makes a major contribution.

**Professional Skills Map**

|  |  |
| --- | --- |
| **Degree** | **BSc in Computer Science and Engineering** |
| **Program Offering Entity** | **Department of Computer Science and Engineering** |

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| **Courses** | **PS1** | **PS2** | **PS3** | **PS4** | **PS5** | **PS6** | **PS7** | **PS8** | **PS9** | **PS10** | **PS11** | **PS12** |
| **CSE 101** | √√ | √√ | √ |  |  |  |  |  |  | √ |  |  |
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**Note:** Put (√√) if the course makes a major contribution, Put (√) if the course makes a minor contribution.

**Professional Skills Alignment**

|  |  |
| --- | --- |
| **Degree:** | **BSc in Computer Science and Engineering** |
| **Program:** | **Department of Computer Science and Engineering** |

**Core Competencies for Graduates**

**Internship/Practicum**

**Competent Graduates**

|  |  |  |  |
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| **PS1:** CSE 101 |  | **PS7:** |  |
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| **PS2:**CSE 101 |  | **PS8:** |  |
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| **PS3:**CSE 101 |  | **PS9:** |  |
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| **PS4:** |  | **PS10:** CSE 101 |  |
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| **PS5:** |  | **PS11:** |  |
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| **PS6:** |  | **PS12:** |  |

**Quality/ Accreditation/Regulatory Agencies**

**Feedback from Alumni/Employer of Graduates**

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**Newly Admitted Students in Program**

**Note:** Plot only if the course makes a major contribution.



**Learning Assessment Mapping (Course Level)**

|  |  |
| --- | --- |
| **Degree** | **BSc in Computer Science and Engineering** |
| **Program Offering Entity** | **Department of Computer Science and Engineering** |

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| **Courses** | **AS1** | **AS2** | **AS3** | **AS4** | **AS5** | **AS6** | **AS7** |
| **CSE 101** | √√ | √√ | √√ |  |  |  | √√ |
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**Note:** Put (√√) if the course makes a major contribution, Put (√) if the course makes a minor contribution.

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**Learning Assessment Alignment (Course Level)**

|  |  |
| --- | --- |
| **Degree** | **BSc in Computer Science and Engineering** |
| **Program Offering Entity** | **Department of Computer Science and Engineering** |

**Core Competencies for Graduates**

**Newly Admitted Students in Program**

**Internship/Practicum**

**Competent Graduates**

**AS 2:** CSE 101

**AS 1:** CSE 101

**AS 4:**

**AS 3:** CSE 101

**AS 6:**

**AS 5:**

**AS 7:** CSE 101

**Quality/ Accreditation/Regulatory Agencies**

**Feedback from Alumni/Employer of Graduates**

**Note:** Plot only if the course makes a major contribution.



Semester Course Report

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| University | ULAB | School | School of Engineering | Department | CSE |
| Semester | Fall | Year | 2018 |

I. Basic Information

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Course Code | | | CSE 101 | | | | | |
| 2. | Course Title | | | Introduction to Computer Studies | | | | | |
| 3. | Section | | | 09 | | | | | |
| 4. | Unit/Credit hours: | | | 3 | | | | | |
|  | | | | | | | | | |
| Lectures | | 24 | Tutorial | |  | Practical |  | Total | 24 |
|  | |  |  | |  |  |  |  |  |
| 5. | Course Instructor: | | | Satyaki Das | | | | | |

6. Intended Learning Outcomes:

|  |
| --- |
| 1. **Describe** the concept and components of computing system along with its benefits. |
| 1. **Explain** features and benefits of various technological advancements |
| 1. **Define** a wide range of practical problems as a computational problem |
| 1. **Understand** a real-life problem and **be able** to design and develop systems using pseudocodes and flowcharts. |
| 1. **Introduce** the fundamental concepts of computer programming |

**II. Statistical Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | |  | No. | % | | Students enrolled | 47 | 100.00% | | Students who withdrew | 0 | 0.00% | | Students who took final exam/project | 33 | 70.21% | | Students passed | 29 | 61.70% | | |  |  |  | | --- | --- | --- | |  | No. | % | | Sessions Missed | 2 | 8.3 | | Sessions Made Up |  |  | | Total Sessions Conducted (excluding midterm & finals) | 22 | 91.7 | |
| |  |  | | --- | --- | |  | Average Number Per Session | | Tardy Students | 5 | | Absent Students | 7 | | |  |  | | --- | --- | |  | No. | | Guest Lecturers Invited | 0 | | Field Trips Taken | 0 | |

Achievement of students:

|  |  |  |
| --- | --- | --- |
| Letter Grade | No. | % |
| A+ | 0 | 0.00% |
| A | 1 | 2.13% |
| A- | 0 | 0.00% |
| B | 3 | 6.38% |
| B+ | 0 | 0.00% |
| B- | 11 | 23.40% |
| C+ | 4 | 8.51% |
| C | 6 | 12.77% |
| D | 4 | 8.51% |
| F | 18 | 38.30% |
| I | 0 | 0.00% |
| W | 0 | 0.00% |
| Total | 47 | 100.00% |

III. Professional Information

1. Course topic/content ILO covered

|  |  |  |
| --- | --- | --- |
| Topics Taught | ILO Covered | No. of Sessions |
| Introduction to Computing System | CO1 & CO2 | 2 |
| Number Systems | CO1, CO2 | 4 |
| Hardware and Software | CO1, CO2 | 2 |
| Technological Advancements | CO1, CO2, CO3 | 1 |
| Algorithms, pseudocode and flowcharts | CO1, CO2, CO3, CO4 & CO5 | 4 |
| Introduction to Programming | CO1, CO2, CO3, CO4 & CO5 | 8 |

What percentage of topics/content planned were actually taught? (Please encircle appropriate answer)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. >90% |  | b. 70-90% |  | c. <70% |  |

If <70%, please write the reason for not teaching all topics/content planned:

|  |
| --- |
|  |

If any topics/contents were taught which were not written in course outline, give reasons in detail:

|  |
| --- |
|  |

1. Teaching and learning methods:

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| --- | --- | --- |
| **Teaching Methods** | **No.** | **% of Total Session** |
| Lectures | 19 |  |
| Debate |  |  |
| Discussion | 1 |  |
| Presentation | 1 |  |
| Group Work |  |  |
| Others |  |  |
| Active learning: (Please Specify) |  |  |
| **Teaching Aids:** | **No.** | **% of Total Session** |
| Video |  |  |
| Audio |  |  |
| Handout |  |  |

1. Student assessment:

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| --- | --- | --- | --- |
| **SL#** | **Type** | **Description** | **ILO Assessed** |
| 1. | Written Examination | Midterm, Final and Quizzes | 1-5 |
| 2. | Oral Examination | Presentation | 1-5 |
| 3. | Laboratory work |  |  |
| 4. | Projects | Group | 1-5 |
| 5. | Research Papers |  |  |
| 6. | Others (please specify) | Assignment | 1-5 |

Involvement of external evaluator in student assessment

|  |  |  |  |
| --- | --- | --- | --- |
|  | Yes |  | No |

If yes, please explain

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|  |

1. Facilities and teaching materials:

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| --- | --- | --- | --- | --- |
| **SL#** | **Facilities** | **Please rate the following**  **(1-inadequate, 2-adequate to some extent, 3-adequate)** | | |
| **1** | **2** | **3** |
| 1. | Classroom |  |  |  |
| 2. | Projector/Screen |  |  |  |
| 3. | Whiteboard/Marker |  |  |  |
| 4. | Chair/table |  |  |  |
| 5. | Computer (If appropriate) |  |  |  |
| 6. | Laboratory (If appropriate please specify) |  |  |  |
| 7. | Equipment (If appropriate please specify) |  |  |  |

1. List any Inadequacies:

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| --- |
|  |

1. Administrative Constraints

List any difficulties encountered:

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1. Suggestions for Course Enhancement:

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| Class size should be reduced. |

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| Signature: |  |  |
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| Date: |  |  |